

1 CCCGCCACCCACATCTACGGTCAATTAAATGTTGCCCTACTCGTAAAGGACAGACACCCCTCAGACTGATGAAATGGCTCAGAAATTACTAGACAA
97 AGGGATATTTGCCACTCTCTTCCCCCTTCTGTGTTTGCTAGTGAGAGACCTCAAGAAGAAGTAGGGACACATAATGAGAACAAATAGG
193 GAACTCTCTTCAATTGCTAGTCAGTGCCTGGACTTGGACTTAGGAGGGCAATGAGCCGCTTAGTGCCTACATCTGACTTGGACTGAAATATA
289 CGTGAGAGACAGATTGTCTCATATCCGGGAATCATACCTATGACTAGGACGGAAAGGAAAGCACTGCCCTTACTTCAGTGGAAATCTGGC
385 CTCAGCCCTGCAGGCCAGTGTTCACAGTGAGAAAGCAAGAGAATAGCTAAACTCTGTCTGAAACAGGAGGGCTCTGGTAAAGCTACT
481 CCTTGATCGATCCTTGACACGGATTGTTCAAGTGGACCCAGGGAGAGTCGGAGCAAGAACATACCAACCAAGCAGTCCAGAGGCCAGAA
577 GCAAAACCTGGAGGTGAGACCCAAAGAAAGCTGGAAACCATGTCIACCTTGTACACTGTGAGGACACAGAGTCGTCTGGAAAGGCCAGTGTCAAC
LE V R P K E S W N H A D F V H C E D T E S V P G K P S V N 30
673 CCACATGAGGAAGTGGAGCTCCCAAATCTGCCGTGTATGTCGGCAAGGCCACTGGCTATCATTCAATGTCATGACATGTGAAGGATGCCAG
A D E E V G G P Q I C R V C G D K A T G Y E T K V K T C Z G C K 62
769 GGCCTTTTCAGGAGGGCCATGAAACGCAAGGCCGGCTGAGGTGCCCTTCCGGAGGGGCCCTGGAGAGTCACCCGAAGACCGGCCACAGTC
G F P R R A M K R N A R L R C P T R X G A C E I T R K T R R Q C 94
865 CAGGCCCTCCGCCGTGGCAAGTGCCTGGAGAGCGGCATGAAGAGGGAGATGATCATGTCGGACGGAGGGCTGGAGAGAGGCCGGCTTGATCAAG
Q A C R L R K C L E S G K K K E M I H S D E A V E R R A L I K 126
961 CGGAGAGAAACTGAACGGACAGGACTCAGCCACTGGCACTGCCAGGGCTGACAGAGGACCCGATGATGATCAGGAGCTGATGGAGCGTCAG
R K K S E R T G T Q P L G V Q G L T E Q R M H I R E L M D A Q 158
1057 ATGAAACCTTGACACTACCTTCTCCCATTTCTAGAATTCTCCGGCTGCCAGGGCTGCTTACGACTGCCCTGCCAGTTGCCAGACCCCTCTGGAGGCC
H K T F D T T F S H F K N F R L P G V L S S G C E L P E F L Q A 190
1153 CCATCGAGGGAGAGCTGCAAGTGGAGCCAGGTCGGGAAGATCTGTCTCTTGAGGTCTCTCTGCAAGCTGCCGGGGAGGATGCCAGTGT
P S R E E A A K W S Q V R K D L C S L K V S L Q A A G G G W Q C 222
1249 CTGGAACTACAAACGCCAGCCGACAGTGGGGAAAGAGATCTCTCCCTGCTGCCACATGGTGACATGTCACCTACATGTCAGGCCATC
L E L Q T P S R Q W R K E I F S L L P H H A D H S T Y M F K G I 254
1345 ATCAGCTTGGCAAGTCATCTCTACTTCAGGGACTTGCCCATGAGGACCACTCTCCCTGCTGAGGGGGGGCTTTCGAGCTGTGTCAGTGC
I S P A K V I S Y F R D L P I E D Q I S L L K G A A F E L C Q L 286
1441 AGATTCAACACAGTGTCAACGGGAGACTGGAACTTGGAGTGTGGCCGGCTGCTTACTGCTTGGAAAGACACTGAGGTGGCTTCCAGCACTT
R F N T V F N A E T G T W E C G R L S Y C L E D T A G G F Q Q L 318
1537 CTACTGGAGCCCATGCTGAATTCCACTACATGCTGAGAACCTGCAAGCTGCAAGGAGGAGTATGTCGTGATGCAAGGCCATCTCCCTCTCTCC
L L E P H L K F H Y M L K K L Q L H E E E Y V L M Q A I S L F S 350
1633 CCAGACCGCCCAAGGTCTCTGCCAGCACCCCGTGTGGACAGCTGCAAGGACCAATGCCATTACTCTGAGTCTACATTGAATGCACTGGGCC
P D R P G V L Q H R V V D Q L Q E Q F A I T L K S Y I E C N R P 382
1729 CAGGCTGCTCATACGGTCTGTCTCTGAGAGATCATGGCTATGTCACCCGAGCTCGCAGGATCAATGCTGAGGACACACCCAGGGCTGCTCCGATC
Q P A H R F L F L K I M A H L T E L R S I N A Q H T Q R L L R I 414
1825 CAGGACATACACCCCTTGCTACGGCCATGCAAGGAGTGTGTCGGCATCACAGTACGGTACAGTGGAGGCTGCCCTGGGTGACACCTTCAGAGGGAG
Q D I H P F A T P L M Q E L F G I T G S * 434
1921 CCAGACCCAGAGCCCTCTGAGCCGGACTCCGGGCAAGACAGATGGACACTGCCAAGACCCGACAATGCCCTGCTGGCTCTCCCTAGGGAA
1977 TTCTGCTATGACAGCTGGCTAGCATCTCTGAGAGGACATGGGTGGCCC 2068

FIG. 1A

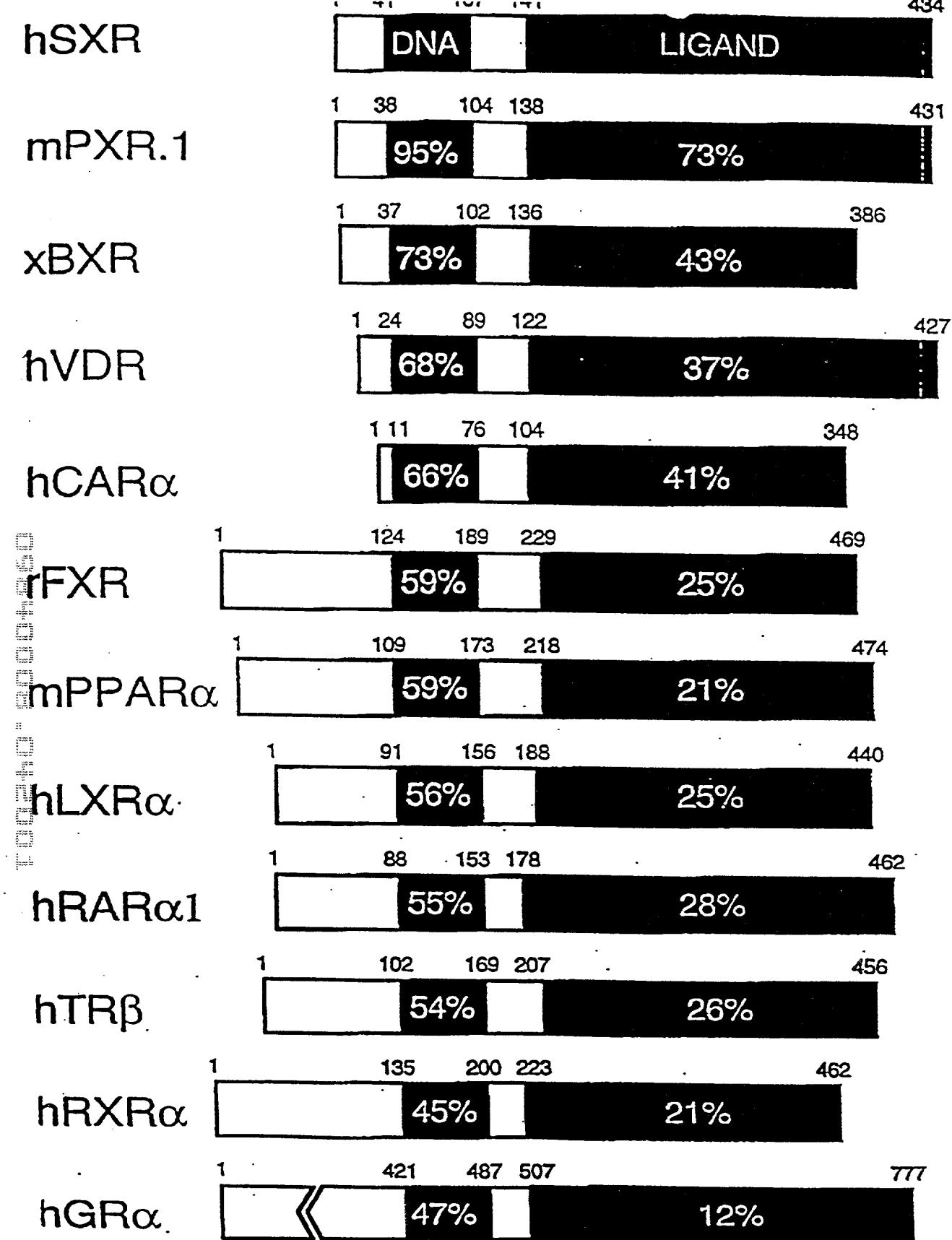


FIG. 1B

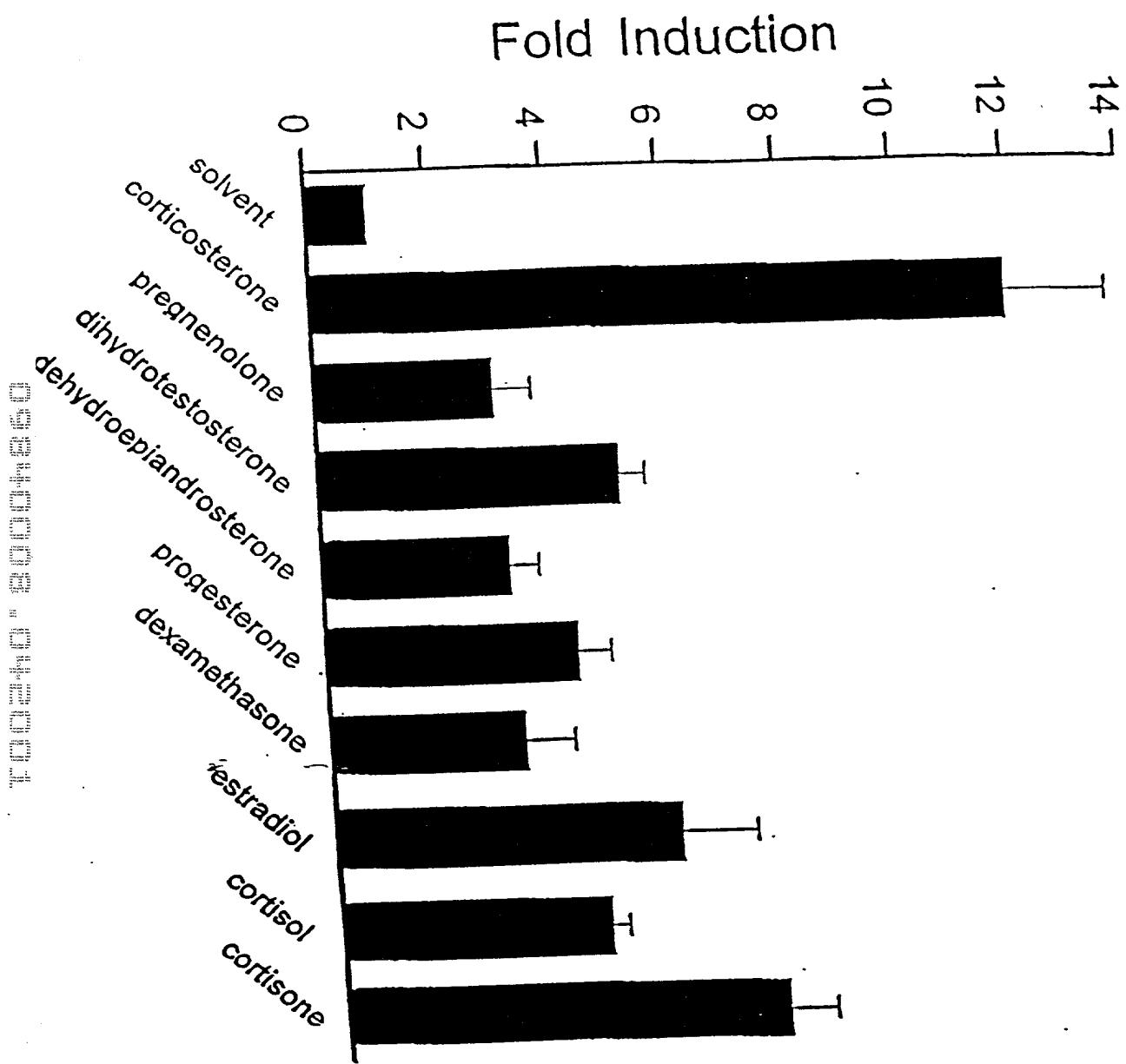


FIG. 2

Fold Induction

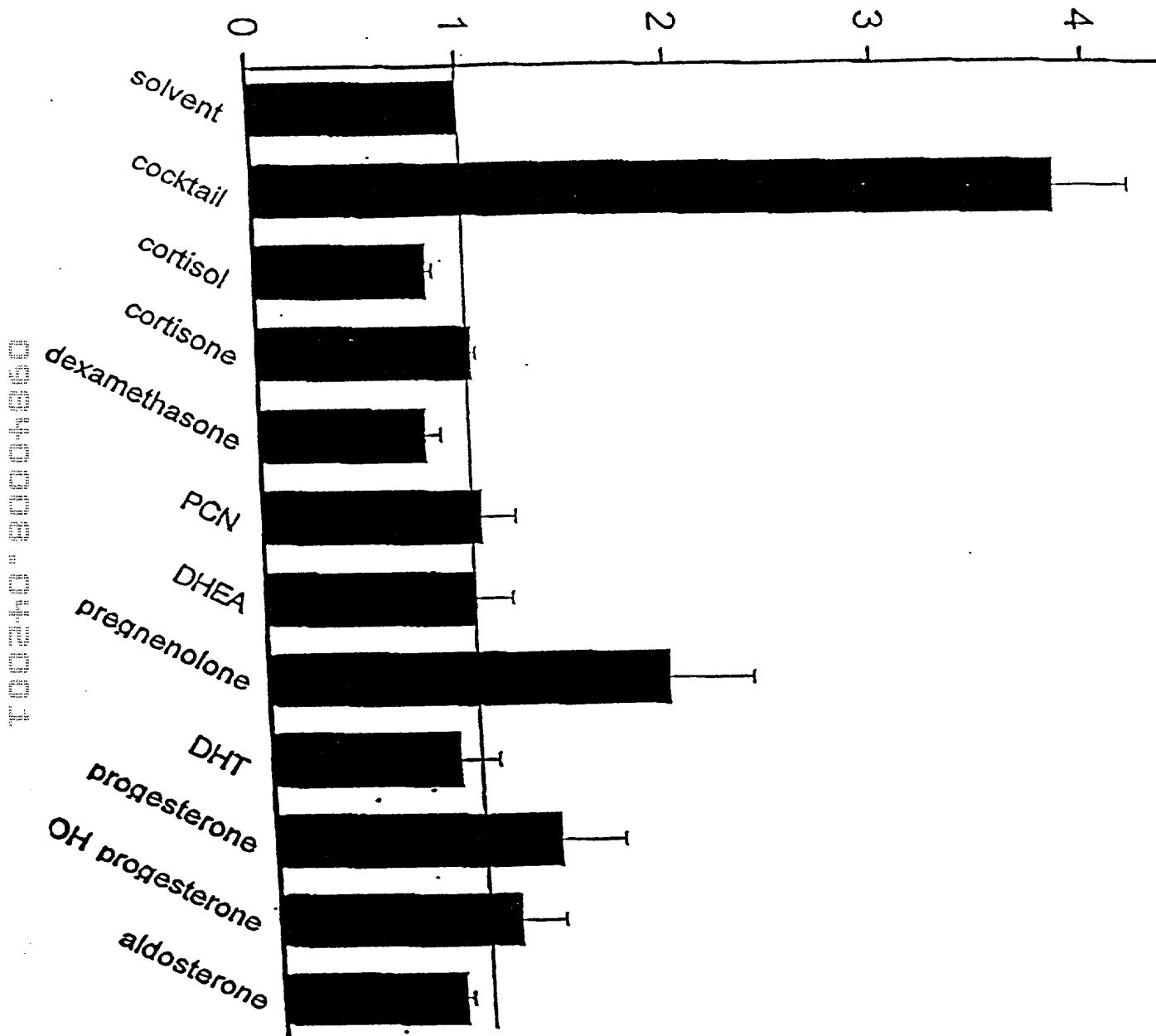


FIG. 3

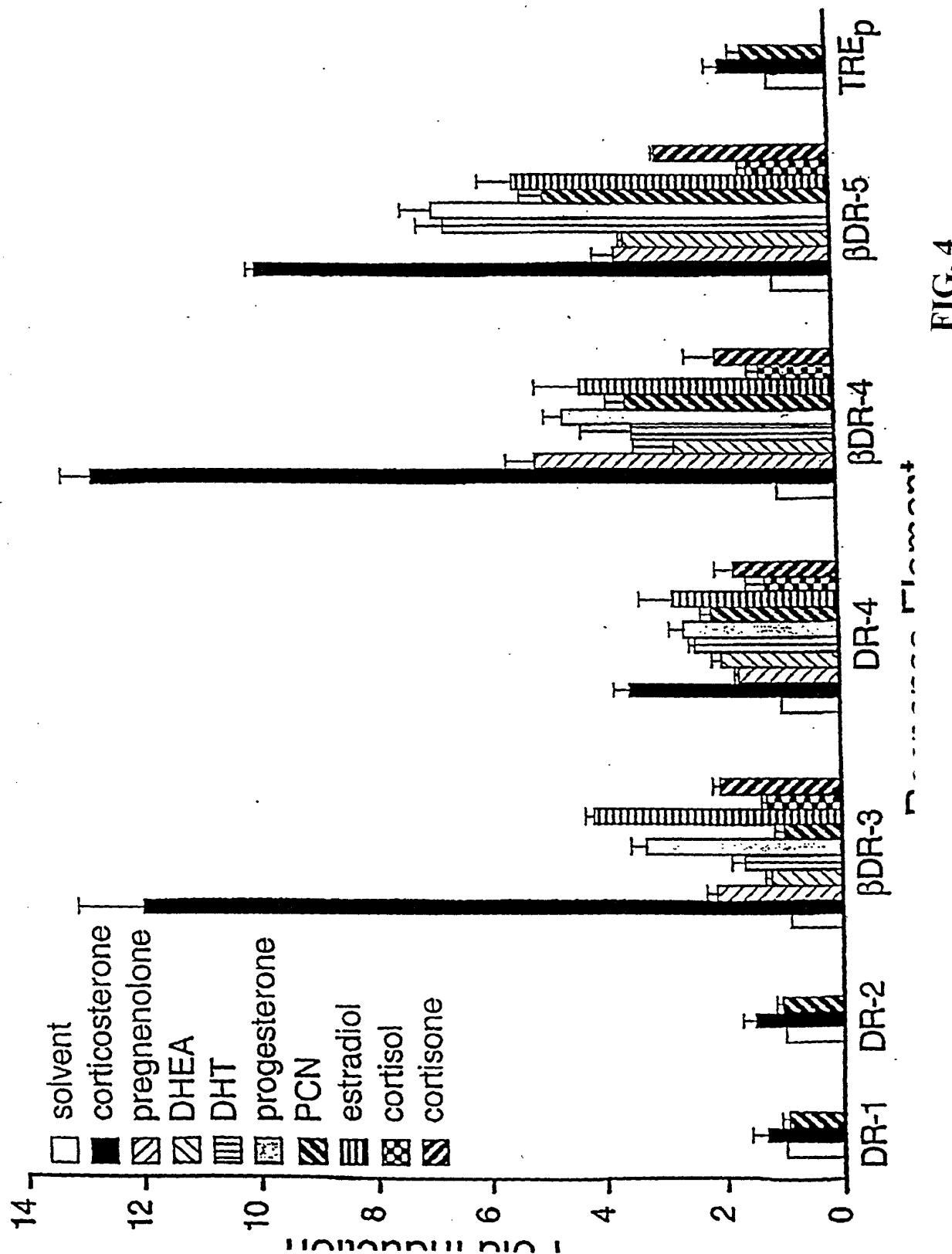


FIG. 4

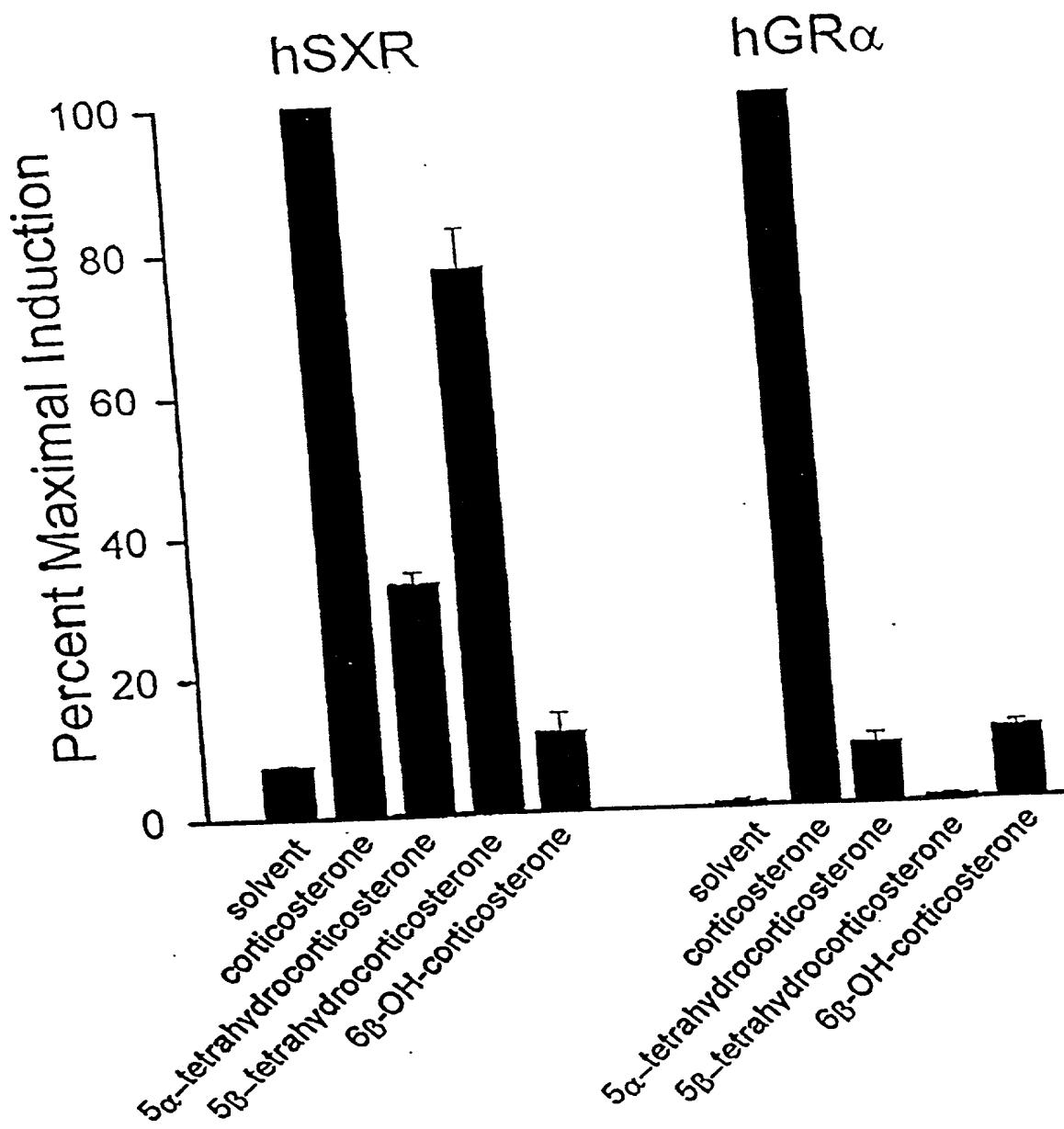


FIG. 5

DR-3
rCYP3A1
rCYP3A2
rUGT1A6

tagac **AGTTCA** tga **AGTTCA** tctac
taagc **AGTTCA** taa **AGTTCA** tctac
actgt **AGTTCA** taa **AGTTCA** catgg

DR-4
rbCYP2C1
rP450R

caatc **AGTTCA** acag **GGTTCA** ccaat
cac **AGGTGA** gctg **AGGCCA** gcagc **AGGTCG** aaa

DR-5
rCYP2A1
rCYP2A2
rCYP2C6
hCYP2E1

gtgca **GGTTCA** actgg **AGGTCA** acatg
gtgct **GGTTCA** actgg **AGGTCA** gtatg
agtct **AGTTCA** gtggg **GGTTCA** gtctt
gagat **GGTTCA** aggaa **GGGTCA** ttaac

FIG. 6A

CYP3A4
CYP3A5
CYP3A7

tagaata **TGAACT** caaagg **AGGTCA** gtgagtgg
tagaata **TGAACT** caaagg **AGGTAA** gcaaaggg
tagaata **TTAACT** caatgg **AGGC.A** gtgagtgg

FIG. 6B

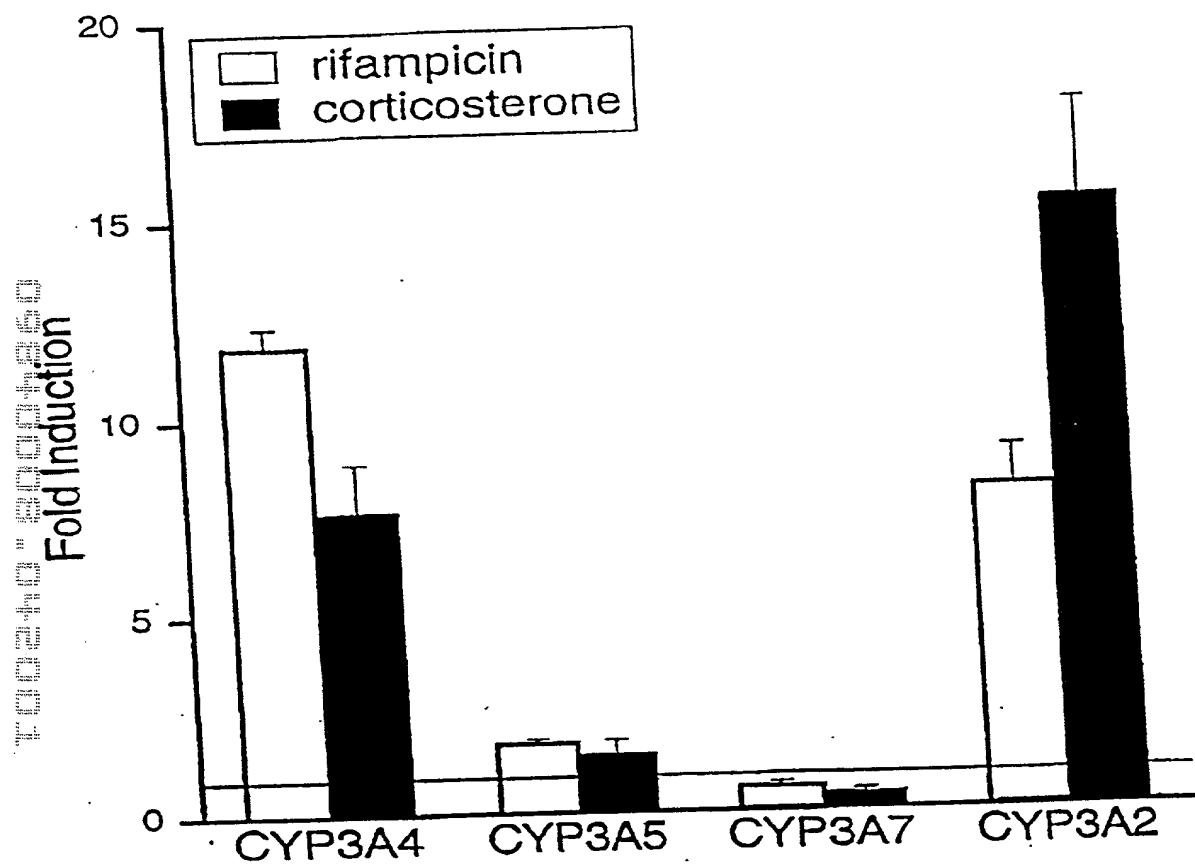


FIG. 6C

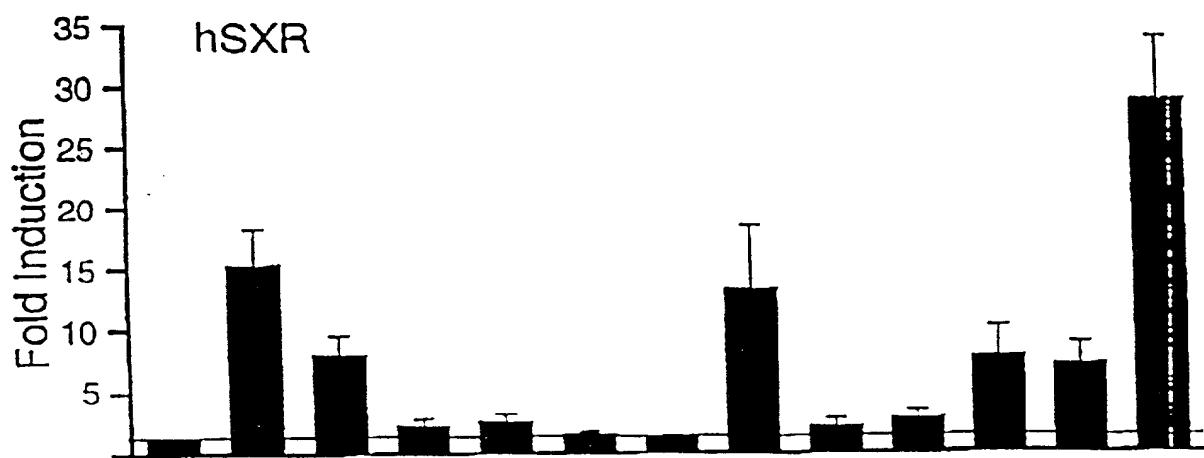


FIG. 7A

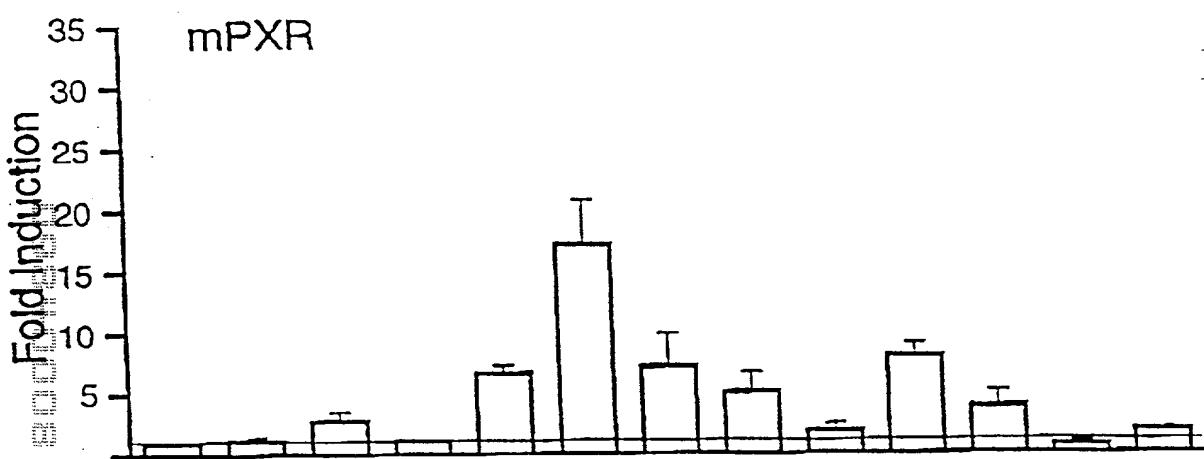


FIG. 7B

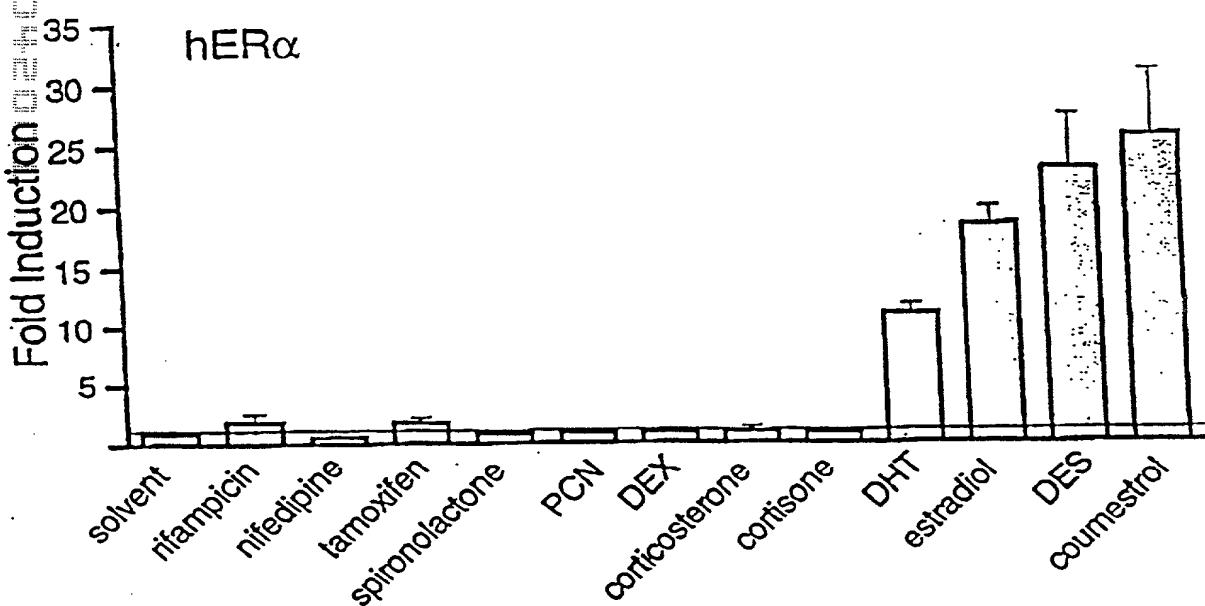
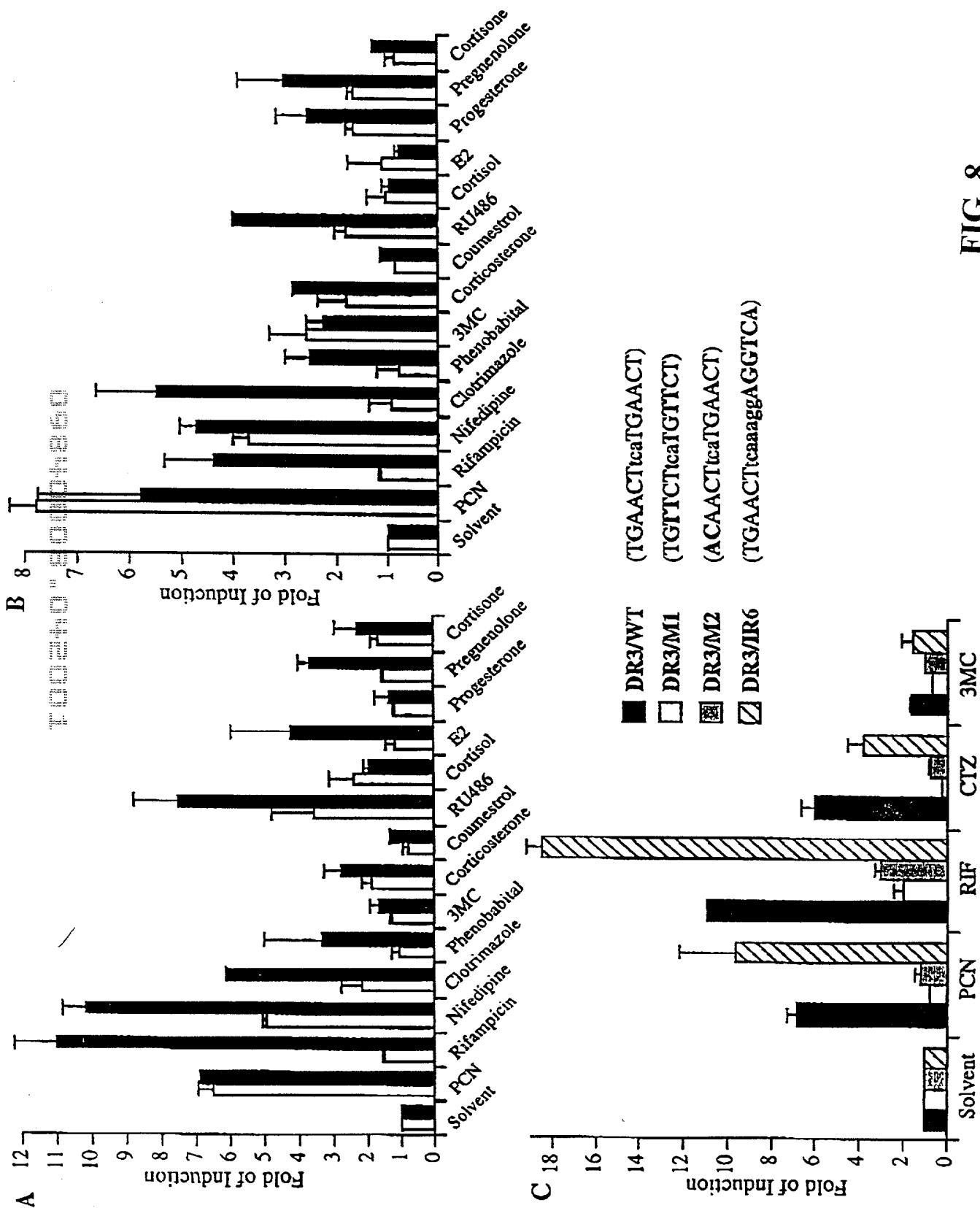


FIG. 7C

FIG. 8



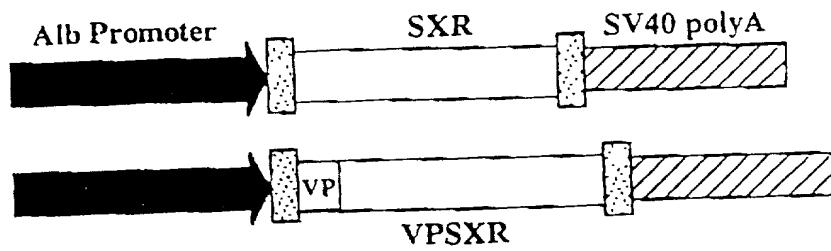


FIG. 9

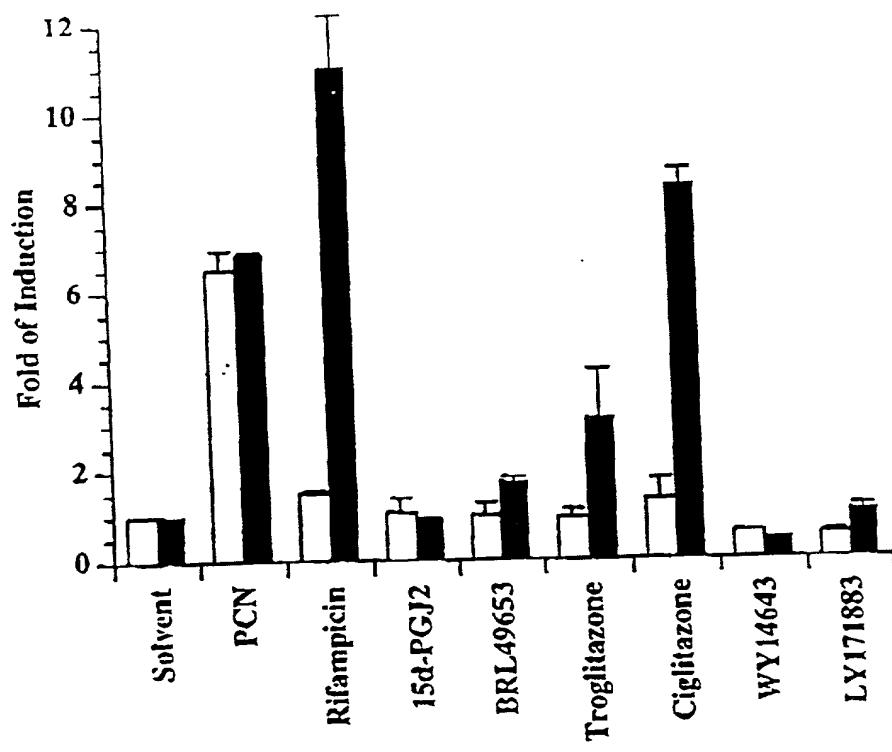


FIG. 10

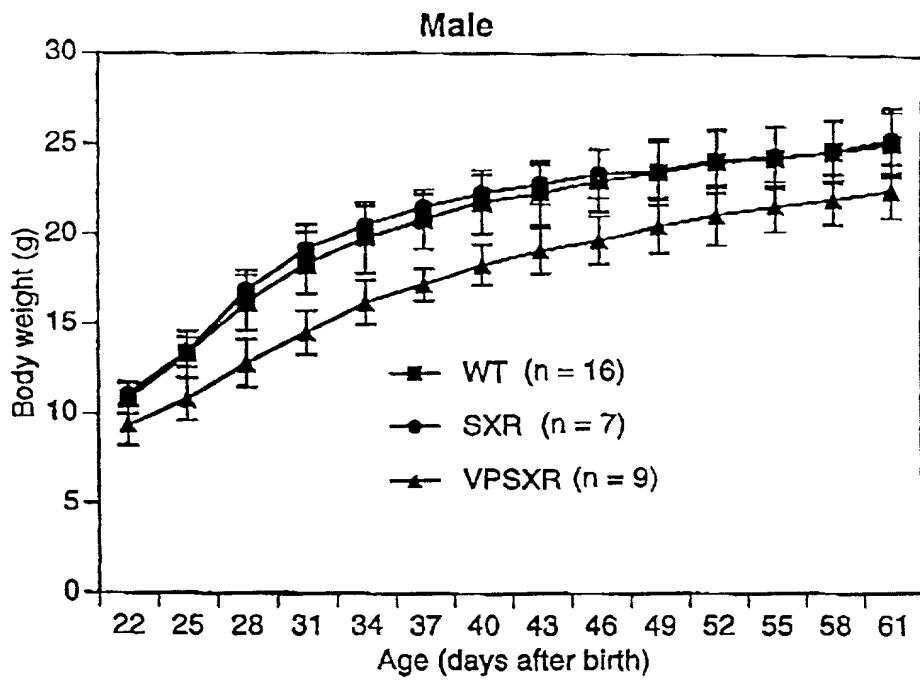


FIG. 11

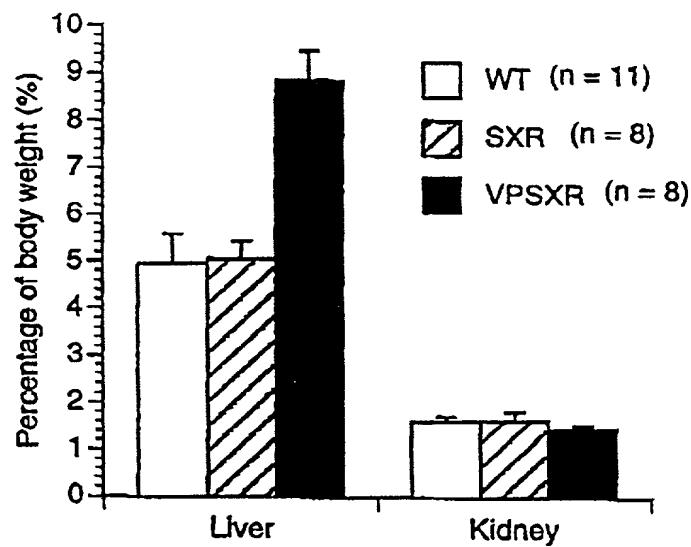


FIG. 12